Recombinant COJA1 protein (His tag)

Catalog Number	547321
Synonyms	XIX; Collagen alpha-1(Y) chain
Species	Human
Expression System	E. coli
Accession	Q14993
Molecular Weight	Predictes a molecular mass of 26.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	33-245
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 33-245 aa (Q14993) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant human Collagen alpha-1(XIX) chain fragment (residues 33-245), a 213-amino acid protein designed to encompass the functional Laminin G-like domain. This high-purity fragment serves as an essential tool for investigating extracellular matrix interactions, skeletal myogenesis, and pericellular matrix organization in research applications. The full-length Collagen alpha-1(XIX) chain (encoded by COL19A1) is a secreted extracellular matrix protein that functions as a structural cross-bridge between fibrils and other matrix components. Based on established research, it plays critical roles in skeletal myogenesis during esophageal development and contributes to the organization of both the pericellular matrix and sphincteric smooth muscle. Located in the extracellular space and matrix, this protein facilitates essential cell-matrix interactions that support tissue structure and function.